Assessment

OFF HAND GRINDING AND SAFETY

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ASSESSMENT – OFF-HAND GRINDING AND SAFETY

Name: .........................................................

Date: .........................................................

I.D. (if applicable): ........................................

1. What are the 2 most common off-hand grinding machines?
   a) Forward and Backward
   b) Electrical and Pneumatic
   c) Bench and Vice
   d) Pedestal and Bench

2. What can off-hand grinding machines be used for?
   a) Smoothing surfaces
   b) Preparing plates for welding
   c) Dressing of castings
   d) All of the above

3. If which direction should the abrasive wheel rotate on a grinding machine?
   a) Downwards toward the work rest
   b) Upwards away from the work rest
   c) Direction is not important
   d) Direction is dependent on the job

4. Which of these represent the coarsest abrasive wheel?
   a) 20
   b) 10
   c) 600
   d) 1 million
5. How do you test an abrasive wheel for cracks?
   a) Fit it to the machine and quickly press the on/off button
   b) Allow it to hang free then tap the side of the wheel with a non-metallic object
   c) By visual inspection
   d) Dip it in water and watch for rising air bubbles

6. When fitting a wheel, which of the following steps should you do?
   a) Switch off the power
   b) Isolate the machine
   c) Brush down the machine
   d) All of the above

7. ________ the wheel is the process of removing material from the cutting face. This squares up the surface of the wheel and makes it concentric with the axis.
   a) Sealing
   b) Truing
   c) Running in
   d) Spinning

8. ________ cleans or exposes new abrasive particles on the cutting surface of the wheel.
   a) Dressing
   b) Scratching
   c) Lining
   d) Hammering

9. When is it acceptable to use the side of a standard abrasive wheel during operation?
   a) Only when working on a material softer than metal
   b) Any time as long as you wear the appropriate PPE
   c) Never
   d) Any time as long as you keep contact with the wheel below 5 seconds at a time

10. What grit-type of wheel is most appropriate for finishing work?
    a) File grit
    b) Sand grit
    c) Coarse grit
    d) Fine grit